



PTO/SB/21 (08-00)

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**TRANSMITTAL  
FORM***(To be used for all correspondence  
after initial filing)*

Application Number	10/606,644
Filing Date	June 25, 2003
First Named Inventor	Michael W. Reed
Group Art Unit	
Examiner Name	
Attorney Docket No.	290097.402D1

**ENCLOSURES (check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 (8 Sheets) <input checked="" type="checkbox"/> 23 Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group ( <i>Appeal Notice, Brief, Reply Brief</i> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Additional Enclosure(s) ( <i>please identify below</i> ): _____ _____ _____
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Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Individual Name	David W. Parker, Ph.D. Reg. No. 37,414	Customer Number <b>00500</b>
Signature		
Date	August 29, 2003	

**CERTIFICATE OF MAILING**

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PATENT

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August 29, 2003  
Date  
Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Michael W. Reed et al.  
Application No. : 10/606,644  
Filed : June 25, 2003  
For : FLUORESCENT QUENCHING DETECTION  
REAGENTS AND METHODS

Docket No. : 290097.402D1  
Date : August 28, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Form PTO-1449. This application is a divisional and relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 10/093,769, filed March 7, 2002; which is a continuation of Application No. 09/457,616, filed December 8, 1999. The references listed on pages 1-6 of the attached Forms PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in these prior applications and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request. However, the references listed on pages 7-8 of the attached Forms PTO-1449 were not cited in the prior applications, and therefore copies are provided herewith.

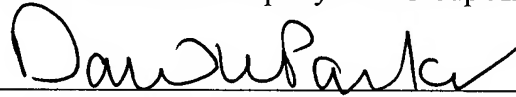
As to any reference supplied herewith or previously supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Commissioner is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



David W. Parker, Ph.D.

Registration No. 37,414

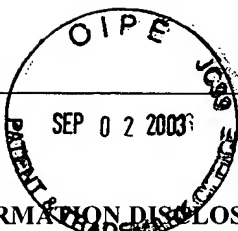
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Enclosures:

Postcard  
Form PTO/SB/21  
Form PTO-1449 (8 sheets)  
23 Cited References

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
Phone: (206) 622-4900  
Fax: (206) 682-6031

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
290097.402D1APPLICATION NO.  
10/606,644**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Michael W. Reed et al.

FILING DATE

June 25, 2003

GROUP ART UNIT

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2,264,303	12/02/41	Dickey	260	205	
	AB	3,970,617	07/20/94	Bruno	260	152	
	AC	4,358,535	11/09/82	Falkow et al.	435	5	
	AD	4,868,105	09/19/89	Urdea et al.	435	6	
	AE	4,954,630	09/04/90	Klein et al.	544	102	
	AF	5,124,246	06/23/92	Urdea et al.	435	6	
	AG	5,210,015	05/11/93	Gelfand et al.	435	6	
	AH	5,304,645	04/19/94	Klein et al.	544	10.2	
	AI	5,326,679	07/05/94	Yanagisawa et al.	430	495	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AJ	WO 90/14353	11/29/90	WIPO		
	AK	WO 92/10588	06/25/92	WIPO		
	AL	WO 96/17957	06/13/96	WIPO		
	AM	WO 97/39008	10/23/97	WIPO		
	AN	WO 99/40226	08/12/99	WIPO		

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	"98 Catalogue", 1998 Amersham Pharmacia Biotech S-Hertogenbosch, Netherlands, pg. 127, FluoroBlue.
	AP	Asanuma et al., "Photo-Responsive Oligonucleotides Carrying Azobenzene in the Side-Chains," <i>Tetrahedron Letters</i> 39: 9015-9018, 1998.
	AQ	Baker et al., "Fluorescent Reagents. Acyl Chlorides and Acyl Hydrazides," <i>Journal of the Chemical Society</i> , pg. 170-173, 1950.
	AR	Bickett et al., "A High Throughput Fluorogenic Substrate for Stromelysin (MMP-3)," <i>Annals of the New York Academy of Science</i> 732: 351-355, 1994.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-147  
(REV. 7-80)

SEP 02 2003

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
290097.402D1APPLICATION NO.  
10/606,644

## INFORMATIONAL DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Michael W. Reed et al.

FILING DATE

June 25, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,328,824	07/12/94	Ward et al.	435	6	
	BB	5,451,463	09/19/95	Nelson et al.	428	402	
	BC	5,455,157	10/03/95	Hinzpeter et al.	435	6	
	BD	5,492,806	02/20/96	Drmanac et al.	435	5	
	BE	5,502,177	03/26/96	Matteucci et al.	536	26.6	
	BF	5,512,667	04/30/96	Reed et al.	536	24.31	
	BG	5,525,464	06/11/96	Drmanac et al.	435	6	
	BH	5,556,752	09/17/96	Lockhart et al.	435	6	
	BI	5,696,251	12/09/97	Arnold, Jr. et al.	536	23.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BJ	WO 99/51621	10/14/99	WIPO		
	BK	WO 00/06771	02/10/00	WIPO		
	BL	WO 00/70685	11/23/00	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BM	Boger et al., "Studies on the Total Synthesis of CC-1065: Preparation of a Synthetic Simplified 3-Carbamoyl-1,2-dihydro-3H-pyrrolo[3,2-e]indole Dimer/Trimer/Tetramer (CDPI Dimer/Trimer/Tetramer)....," <i>J. Org. Chem.</i> 52: 1521-1530, 1987.
	BN	Bolli et al., "Watson-Crick base-pairing properties of bicyclo-DNA," <i>Nucleic Acids Research</i> 24(23): 4660-4667, 1996.
	BO	Cantor et al., "Oligonucleotide Interactions. III. Circular Dichroism Studies of the Conformation of Deoxyoligonucleotides," <i>Biopolymers</i> 9: 1059-1077, 1970.
	BP	Cardullo et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 85: 8790-8794, December 1988.
	BQ	Demidov et al., "Kinetics and mechanism of polyamide ("peptide") nucleic acid binding to duplex DNA," <i>Proc. Natl. Acad. Sci. USA</i> 92: 2637-2641, March 1995.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



FORM PTO-147 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 290097.402D1	APPLICATION NO. 10/606,644
		APPLICANTS Michael W. Reed et al.	
		FILING DATE June 25, 2003	GROUP ART UNIT

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,801,155	09/01/98	Kutyavin et al.	514	44	
	CB	5,824,796	10/20/98	Petrie et al.	536	26.7	
	CC	5,830,653	11/03/98	Froehler et al.	435	6	
	CD	5,846,726	12/08/98	Nadeau et al.	435	6	
	CE	5,876,930	03/02/99	Livak et al.	435	6	
	CF	5,942,610	08/24/99	Nelson et al.	536	25.32	
	CG	5,952,202	09/14/99	Aoyagi et al.	435	91.2	
	CH	6,007,992	12/28/99	Lin et al.	435	6	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	CI	Du et al., "PhotochemCAD: A Computer-Aided Design and Research Tool in Photochemistry," <i>Photochemistry and Photobiology</i> 68(2): 141-142, 1998.
	CJ	Eisen and Brown, "DNA Arrays for Analysis of Gene Expression," <i>Methods in Enzymology</i> 303: 179-205, 1999.
	CK	Forchiassin and Russo, "An Efficient Synthesis of <i>trans</i> -Hexahydrochroman-7-one," <i>J. Heterocyclic Chem.</i> 20: 493-494, March/April 1983.
	CL	Freifelder, D., <i>Physical Biochemistry</i> , Second Edition, Freeman & Co., New York, "Hybridization Between Single-Stranded Polynucleotides," pp. 700-712, 1982.
	CM	Gamper et al., "Facile preparation of nuclease resistant 3' modified oligodeoxynucleotides," <i>Nucleic Acids Research</i> 21(1): 145-150, 1993.
	CN	Gamper et al., "Modulation of C <sup>m</sup> /T, G/A, and G/T Triplex Stability by Conjugate Groups in the Presence and Absence of KCl," <i>Biochemistry</i> 36: 14816-14826, 1997.
	CO	Haugland, R.P., <i>Handbook of Fluorescent Probes and Research Chemicals</i> , Michelle Spence (ed.), 6 <sup>th</sup> Edition, Molecular Probes, Eugene, OR, "Substates for Miscellaneous Enzymes," Chapter 10.5, pp. 235-236, 1996.
	CP	Hawthorne et al., "Evaluation of Some Fluorogenic Substrates for Continuous Assay of Aminopeptidase P," <i>Analytical Biochemistry</i> 253: 13-17, 1997.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
290097.402D1APPLICATION NO.  
10/606,644

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS  
Michael W. Reed et al.FILING DATE  
June 25, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	6,028,183	02/22/00	Lin et al.	536	22.1	
	DB	6,312,894	11/06/01	Hedgpeth et al.	435	6	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DC	Hirshberg et al., "Crystal Structure of Phosphate Binding Protein Labeled with a Coumarin Fluorophore, a Probe for Inorganic Phosphate," <i>Biochemistry</i> 37: 10381-10385, 1998.
	DD	Holland et al., "Detection of specific polymerase chain reaction product by utilizing the 5' ? 3' exonuclease activity of <i>Thermus aquaticus</i> DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 88: 7276-7280, August 1991.
	DE	Huang et al., "X-ray and <sup>1</sup> H NMR Studies of the Conformational Equilibria of 2-Z-3-Phenyl-1,3,2-oxazaphosphorinanes. Steric and Stereoelectronic Influences on the Unexpected Axial Preferences of Me <sub>2</sub> N and MeNH Substituents on Three-Coordinate Phosphorus," <i>J. Org. Chem.</i> 58: 6235-6246, 1993.
	DF	Ibrahim et al., "The potential of 5' nuclease PCR for detecting a single-base polymorphism in <i>Orthopoxvirus</i> ," <i>Molecular and Cellular Probes</i> 11: 143-147, 1997.
	DG	Innis and Gelfand, <i>PCR Protocols: A Guide to Methods and Applications</i> , Academic Press, San Diego, Innis et al. (eds.), "Optimization of PCRs," Chapter 1, pp. 3-27, 1990.
	DH	Lee et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes," <i>Nucleic Acid Research</i> 11(16): 3761-3766, August 11, 1993.
	DI	Li and Glazer, "Design, Synthesis, and Spectroscopic Properties of Peptide-Bridged Fluorescence Energy-Transfer Cassettes," <i>Bioconjugate Chem.</i> 10: 241-245, 1999.
	DJ	Livak et al., "Oligonucleotides with Fluorescent Dyes at Opposite Ends Provide a Quenched Probe System Useful for Detecting PCR Product and Nucleic Acid Hybridization," <i>PCR Methods and Applications</i> 4: 357-362, 1995.
	DK	Lukhtanov et al., "Direct, Solid Phase Assembly of Dihydropyrroloindole Peptides with Conjugated Oligonucleotides," <i>Bioconjugate Chem.</i> 7: 564-567, 1996.
	DL	Matayoshi et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247: 954-958, February 23, 1990.

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DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).



FORM PTO-14 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 290097.402D1		APPLICATION NO. 10/606,644	
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANTS Michael W. Reed et al.			
				FILING DATE June 25, 2003		GROUP ART UNIT	
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EA	Mayfield and Corey, "Automated Synthesis of Peptide Nucleic Acids and Peptide Nucleic Acid-Peptide Conjugates," <i>Analytical Biochemistry</i> 268: 401-404, 1999.					
	EB	Mayfield and Corey, "Enhancing Solid Phase Synthesis By a Noncovalent Protection Strategy-Efficient Coupling of Rhodamine to Resin-Bound Peptide Nucleic Acids," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 9: 1419-1422, 1999.					
	EC	Milesi et al., "Synthesis of Oligonucleotide Conjugates in Anhydrous Dimethyl Sulfoxide," <i>Methods in Enzymology</i> 313: 164-173, 1999.					
	ED	Morrison, L.E., <i>Nonisotopic DNA Probe Techniques</i> , Kricka, L.J. (ed.), Academic Press, Inc., San Diego, "Detectoin of Energy Transfer and Fluorescence Quenching," Chapter 13, pp. 311-352, 1992.					
	EE	Nazarenko et al., "A closed tube format for amplification and detection of DNA based on energy transfer," <i>Nucleic Acids Research</i> 25(12): 2516-2521, 1997.					
	EF	Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <i>Science</i> 254: 1497-1500, December 6, 1991.					
	EG	Petrie et al., "An Improved CPG Support for the Synthesis of 3' -Amine-Tailed Oligonucleotides," <i>Bioconjugate Chem.</i> 3: 85-87, 1992.					
	EH	Pon and Yu, "Hydroquinone- <i>O</i> , <i>O</i> '-Diacetic acid ('Q-linker') as a replacement for succinyl and oxalyl linker arms in solid phase oligonucleotide synthesis," <i>Nucleic Acids Research</i> 25(18): 3629-3635, 1997.					
	EI	Reed et al., "Acridine- and Cholesterol-Derivatized Solid Supports for Improved Synthesis of 3'-Modified Oligonucleotides," <i>Bioconjugate Chem.</i> 2: 217-225, 1991.					
	EJ	Rothman and Still, "A New Generation of Fluorescent Chemosensors Demonstrate Improved Analyte Detection Sensitivity and Photobleaching Resistance," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 9: 509-512, 1999.					
	EK	Seela et al., "8-AZA-7-Deazapurine DNA: Synthesis and Duplex Stability of Oligonucleotides Containing 7-Substituted Bases," <i>Nucleosides &amp; Nucleotides</i> 18(6&7): 1399-1400, 1999.					
EXAMINER				DATE CONSIDERED			
<b>* EXAMINER:</b> Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							




FORM PTO-142  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.  
290097.402D1

APPLICATION NO.  
10/606,644

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS  
Michael W. Reed et al.

FILING DATE  
June 25, 2003

GROUP ART UNIT

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

FA	Seela et al., "Parallel-Stranded DNA Formed by New Base Pairs Related to the Isoguanine-Cytosine or Isocytosine-Guanine Motifs," <i>Nucleosides &amp; Nucleotides</i> 18(6&7): 1543-1548, 1999.
FB	Seela and Zulauf, "Synthesis of oligonucleotides containing pyrazolo[3,4- <i>d</i> ]-pyrimidines: The influence of 7-substituted 8-aza-7-deazaadenines on the duplex structure and stability," <i>J. Chem. Soc. Perkin Trans. 1</i> : 479-488, 1999.
FC	Sokol et al., "Real time detection of DNA-RNA hybridization in living cells," <i>Proc. Natl. Acad. Sci.</i> 95: 11538-11543, September 1998.
FD	Tyagi et al., "Multicolor molecular beacons for allele discrimination," <i>Nature Biotechnology</i> 16: 49-53, January 1998.
FE	Uhlmann et al., "PNA: Synthetic Polyamide Nucleic Acids with Unusual Binding Properties," <i>Angew. Chem. Int. Ed.</i> 37: 2796-2823, 1998.
FF	Van Ness and Chen, "The use of oligodeoxynucleotide probes in chaotrope-based hybridization solutions," <i>Nucleic Acids Research</i> 19(19): 5143-5151, 1991.
FG	Whitcombe et al., "Detection of PCR products using self-probing amplicons and fluorescence," <i>Nature Biotechnology</i> 17: 804-807, August 1999.
FH	White et al. "A Continuous Fluorometric Assay for Leukotriene D <sub>4</sub> Hydrolase," <i>Analytical Biochemistry</i> 268: 245-251, 1999.
FI	Wiegant et al., "Multiple and sensitive fluorescence in situ hybridization with rhodamine-, fluorescein-, and coumarin-labeled DNAs," <i>Cytogenet. Cell Genet.</i> 63: 73-76, 1993.
FJ	Wittwer et al., "The LightCycler <sup>TM</sup> : A Microvolume Multisample Fluorimeter with Rapid Temperature Control," <i>BioTechniques</i> 22(1): 176-181, 1997.
FK	Young and Anderson, <i>Nucleic Acid Hybridisation</i> , Hames and Higgins (eds.), IRL Press, Oxford, England, "Quantitative Analysis of Solution Hybridisation," Chapter 3, pp. 47-111, 1985.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-144  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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## INFORMATION DISCLOSURE STATEMENT

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APPLICANTS

Michael W. Reed et al.

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GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA	6,531,581 B1	03/11/03	Nardone et al.	534	560	
	GB	6,485,901 B1	11/26/02	Gildea et al.	435	5	
	GC	6,465,644 B1	10/15/02	Yan et al.	544	99	
	GD	6,465,175 B2	10/15/02	Horn et al.	435	6	
	GE	6,448,407 B1	09/10/02	Lee et al.	546	283.1	
	GF	6,416,953 B1	07/09/02	Heller	435	6	
	GG	6,399,392 B1	06/04/02	Haugland et al.	436	172	
	GH	6,323,337 B1	11/27/01	Singer et al.	536	26.6	
	GI	6,117,986	09/12/00	Nardone et al.	534	727	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	GJ	GB 1533121	11/22/78	Great Britain		
	GK	GB 1394368	05/14/75	Great Britain		
	GL	WO 99/64431	12/16/99	WIPO		
	GM	WO 97/29154	08/14/97	WIPO		

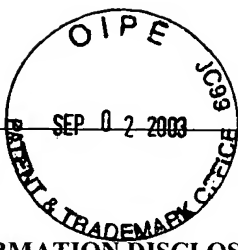
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	GN	Dawson, J.F., "The Structure and Properties of Disperse Dyes in Polyester Coloration," <i>JSDC</i> 99: 183-191, July/August 1983.
	GO	Heesemann, J., "Studies of Monolayers. 1. Surface Tension and Absorption Spectroscopic Measurements of Monolayers of Surface-Active Azo and Stilbene Dyes," <i>Journal of the American Chemical Society</i> 102(7): 2167-2176, March 26, 1980.
	GP	Keil, D. et al., "Preparation and UV/Vis Spectroscopic Characterization of <i>N,N</i> -Disubstituted 2-Amino-5-arylazoselenazoles and Some of Their Carbocyclic and Heterocyclic Analogues," <i>J. Prakt. Chem.</i> 342(2): 169-174, 2000.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
290097.402D1APPLICATION NO.  
10/606,644

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS  
Michael W. Reed et al.FILING DATE  
June 25, 2003

GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	HA	6,114,518	09/05/00	Pitner et al.	536	25.3	
	HB	5,272,259	12/21/93	Claussen et al.	534	689	
	HC	3,407,189	10/22/68	Merian	260	207.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	HD					
	HE					
	HF					
	HG					
	HH					
	HI					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	HJ	Lyttle, M.H. et al., "Alternatives to FRET: Design of Fluorescence-quenched Oligonucleotide Probes with Extremely High Signal/Noise Ratios," BIOSIS Database, Accession No. 2001:519181. See also Poster Session from 12 <sup>th</sup> International Genome Sequencing and Analysis Conference, Miami Beach, FL, September 12-15, 2000.
	HK	Sabnis, R. W. et al., "Synthesis and Application of 5-arylazothiophene Derivatives," <i>Bull. Chem. Soc. Jpn.</i> 64: 3768-3770, 1991.
	HL	Sijm, D.T.H.M. et al., "Aqueous solubility, octanol solubility, and octanol/water partition coefficient of nine hydrophobic dyes," <i>Environmental Toxicology and Chemistry</i> 18(6): 1109-1117, 1999.
	HM	Weaver and Shuttleworth, "Heterocyclic diazo componenets," <i>Dyes and Pigments</i> 3: 81-121, 1982.
	HN	
	HO	

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